Bachelor of Mathematical Science (BMTS)
2026 Study Plan

Flinders University
Science & Engineering

The following Study Planners are available within this document:

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official Course Rule.
- Topic information for all topics, including pre-requisites can be found on the Topic Page
- General enrolment assistance is available via Ask Flinders
- ** indicates that Pre-requisites apply

Bachelor of Mathematical Science (BMTS)
Semester 1 Commencing: Data Science Major

Flinders University
Science & Engineering

First Level	**Semester 1**	**STEM1001** Communicating STEM	**STAT1121** Data Science	**MATH1121** Mathematics 1A	**COMP1102** Computer Programming 1
	Semester 2	**PHYS1101** Physics 1A**	**STAT1132** Statistical Analysis**	**MATH1122** Mathematics 1B**	**Data Science Major Topic:** **COMP1711** Database Modelling and Information Management
Second Level	**Semester 1**	**Data Science Major Topic:** **COMP2031** Data Engineering**	**Option Topic**: *Refer to Course Rule*	**Minor Topic** *Refer to Course Rule*	**Year 2 Option Topic** *Refer to Course Rule*
	Semester 2	**Data Science Major Topic:** **STAT2702** Probability**	**Data Science Major Option Topic:** **COMP2711 OR** **COMP2712 OR** **MATH1122 ((**if student does not have Maths background)**	**Minor Topic** *Refer to Course Rule*	**Minor Topic** *Refer to Course Rule*
Third Level	**Semester 1**	**Data Science Major Topic:** **COMP3033** Cloud and Distributed Computing**	**Data Science Major Topic:** **STAT3701** Statistical Science**	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*
	NS1	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**Data Science Major Topic:** **COMP3707** Data Mining and Knowledge Discovery**	**Data Science Major Topic:** **ENGR3705** Project Management	**Minor Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*

Bachelor of Mathematical Science (BMTS)
Semester 2 Commencing: Data Science Major

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First Level	**Semester 2**	**COMP1102** Computer Programming 1 (NS2)	**PHYS1101** Physics 1A**	**MATH1121** Mathematics 1A	**Data Science Major Topic: COMP1711** Database Modelling and Information Management
	Semester 1	**STEM1001** Communicating STEM	**STAT1121** Data Science	**MATH1122** Mathematics 1B**	**Minor Topic** *Refer to Course Rule*
Second Level	**Semester 2**	**Data Science Major Topic: STAT2702** Probability**	**Data Science Major Option Topic: COMP2711 OR COMP2712 OR MATH1122 ((**if student does not have Maths background)**	**STAT1132** Statistical Analysis**	**Minor Topic** *Refer to Course Rule*
	Semester 1	**Data Science Major Topic: COMP2031** Data Engineering**	**Option Topic**: *Refer to Course Rule*	**Minor Topic** *Refer to Course Rule*	**Year 2 Option Topic** *Refer to Course Rule*
Third Level	**NS1**	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**Data Science Major Topic: COMP3707** Data Mining and Knowledge Discovery**	**Data Science Major Topic: ENGR3705** Project Management	**Minor Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*
	Semester 1	**Data Science Major Topic: COMP3033** Cloud and Distributed Computing**	**Data Science Major Topic: STAT3701** Statistical Science**	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*

Bachelor of Mathematical Science (BMTS)
Semester 1 Commencing: Mathematics Major

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First Level	**Semester 1**	**STEM1001** Communicating STEM	**STAT1121** Data Science	**MATH1121** Mathematics 1A	**COMP1102** Computer Programming 1
	Semester 2	**PHYS1101** Physics 1A**	**STAT1132** Statistical Analysis**	**MATH1122** Mathematics 1B**	**Option Topic**: *Refer to Course Rule*
Second Level	**Semester 1**	**Mathematics Major Topic** **MATH2702** Linear Algebra and Differential Equations**	**Mathematics Major Topic** **MATH2711** Multivariable Calculus**	**Minor Topic** *Refer to Course Rule*	**Year 2 Option Topic** *Refer to Course Rule*
	Semester 2	**Mathematics Major Topic** **MATH2722** Numerical Analysis**	**Mathematics Major Option Topic:** **MATH2701** **OR** **MATH1122** (if student does not have Maths background)**	**Minor Topic** *Refer to Course Rule*	**Minor Topic** *Refer to Course Rule*
Third Level	**Semester 1**	**Mathematics Major Topic** **MATH3702** Methods of Applied Mathematics**	**Mathematics Major Topic** **MATH3703** Optimisation**	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*
	NS1	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**Mathematics Major Topic** **MATH3711** Complex Analysis**	**Mathematics Major Topic** **MATH3712** Partial Differential Equations**	**Minor Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*

Bachelor of Mathematical Science (BMTS)
Semester 2 Commencing: Mathematics Major

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First Level	**Semester 2**	**COMP1102** Computer Programming 1 (NS2)	**PHYS1101** Physics 1A**	**MATH1121** Mathematics 1A	**Option Topic**: *Refer to Course Rule*
	Semester 1	**STEM1001** Communicating STEM	**STAT1121** Data Science	**MATH1122** Mathematics 1B**	**Minor Topic** *Refer to Course Rule*
Second Level	**Semester 2**	**Mathematics Major Topic** **MATH2722** Numerical Analysis**	**Mathematics Major Option Topic:** **MATH2701** **OR** **MATH1122** (if student does not have Maths background)**	**STAT1132** Statistical Analysis**	**Minor Topic** *Refer to Course Rule*
	Semester 1	**Mathematics Major Topic** **MATH2702** Linear Algebra and Differential Equations**	**Mathematics Major Topic** **MATH2711** Multivariable Calculus**	**Minor Topic** *Refer to Course Rule*	**Year 2 Option Topic** *Refer to Course Rule*
Third Level	**NS1**	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**Mathematics Major Topic** **MATH3711** Complex Analysis**	**Mathematics Major Topic** **MATH3712** Partial Differential Equations**	**Minor Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*
	Semester 1	**Mathematics Major Topic** **MATH3702** Methods of Applied Mathematics**	**Mathematics Major Topic** **MATH3703** Optimisation**	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*

Bachelor of Mathematical Science (BMTS)
Semester 1 Commencing: Physics Major
(must be taken in conjunction with a Minor in Mathematics)

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First Level	**Semester 1**	**STEM1001** Communicating STEM	**STAT1121** Data Science	**MATH1121** Mathematics 1A	**COMP1102** Computer Programming 1
	Semester 2	**STAT1132** Statistical Analysis	**MATH1122** Mathematics 1B**	**PHYS1101** Physics 1A**	**Option Topic**: *Refer to Course Rule*
Second Level	**Semester 1**	**Physics Major Topic:** **PHYS1102** Physics 1B**	**Physics Major Topic:** **ENGR2861** Electromagnetics and Electromagnetic Waves**	**Minor Mathematics Topic** **MATH2702** Linear Algebra and Differential Equations**	**Minor Mathematics Topic** **MATH2711** Multivariable Calculus**
	Semester 2	**Physics Major Topic:** **PHYS2001** Quantum and Nuclear Physics**	**Physics Major Topic:** **PHYS2712** Thermodynamics and Energy Systems**	**Minor Mathematics Topic** **MATH3711** Complex Analysis**	**Year 2 Option Topic** *Refer to Course Rule*
Third Level	**Semester 1**	**Physics Major Topic:** **PHYS3001** Quantum and Statistical Physics**	**Physics Major Option Topic:** **ENGR3025** Nuclear Fuel Cycle and Performance (NS1) **OR** **ENGR3026** Nuclear Reactor Design and Safety Analysis (NS2)**	**Physics Major Topic:** **PHYS2702** Classical Physics**	**Year 2 or 3 Option Topic** *Refer to Course Rule*
	NS1	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**Physics Major Topic:** **PHYS3702** Solid State Physics and Optoelectronics**	**Minor Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*

Bachelor of Mathematical Science (BMTS)
Semester 2 Commencing: Physics Major
(must be taken in conjunction with a Minor in Mathematics)

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First Level	**Semester 2**	**COMP1102** Computer Programming 1 (NS2)	**PHYS1101** Physics 1A**	**MATH1121** Mathematics 1A	**Option Topic**: *Refer to Course Rule*
	Semester 1	**STEM1001** Communicating STEM	**Physics Major Topic:** **PHYS1102** Physics 1B**	**MATH1122** Mathematics 1B**	**STAT1121** Data Science
	NS1	**ENGR3750** Workplace Preparation (0 units)** *If chose STEM3004 (9 units), STEM3005 (13.5 units), STEM3706 (4.5 units) as Option Topics – will require revised study plan			
	Semester 2	**STAT1132** Statistical Analysis**	**Minor Option Topic** *Refer to Course Rule*	**Year 2 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*
Second Level	**Semester 1**	**Physics Major Topic:** **PHYS2702** Classical Physics**	**Physics Major Topic:** **ENGR2861** Electromagnetics and Electromagnetic Waves**	**Minor Mathematics Topic** **MATH2702** Linear Algebra and Differential Equations**	**Minor Mathematics Topic** **MATH2711** Multivariable Calculus**
	Semester 2	**Physics Major Topic:** **PHYS2001** Quantum and Nuclear Physics**	**Physics Major Topic:** **PHYS2712** Thermodynamics and Energy Systems**	**Physics Major Topic:** **PHYS3702** Solid State Physics and Optoelectronics**	**Minor Mathematics Topic** **MATH3711** Complex Analysis**
Third Level	**Semester 1**	**Physics Major Topic:** **PHYS3001** Quantum and Statistical Physics**	**Physics Major Option Topic:** **ENGR3025** Nuclear Fuel Cycle and Performance (NS1) **OR** **ENGR3026**** Nuclear Reactor Design and Safety Analysis (NS2)**	**Year 2 or 3 Option Topic** *Refer to Course Rule*	**Year 2 or 3 Option Topic** *Refer to Course Rule*